### **Avery Weigh-Tronix**

# ZM510 Weighbridge anti-fraud application



Protect your weighbridge operation with anti-fraud software

Technical Specification

#### DESCRIPTION

The ZM510 anti-fraud weighbridge application enables the user to protect their weighbridge from fraudulent transactions. Common methods of committing weighbridge fraud include: manipulation of the weighbridge, system manipulation, manipulation by the operator or manipulation of vehicle weight.

When configured the ZM510 collects data readings from the weighbridge but will not complete a full transaction until a vehicle is completely positioned within the correct weighing zone. An error message will appear on the indicator to alert the operator of a vehicle positioning error. The vehicle will need to correct its positioning before the transaction can continue.

All transaction data can be easily downloaded via USB, to the Avery Weigh-Tronix 'Fraud Underweight Revenue Calculator' on a PC. The software will then analyse the potential lost revenue for underweight readings over a customisable time period.

Although some methods of fraud are hard to control, the Avery Weigh-Tronix developed solution can prevent manipulation of the weighbridge. The highly configurable ZM510 indicator not only protects against fraud but also provides additional features such as control of traffic lights, barriers, positioning and pressure sensors and remote displays. This functionality allows you to configure a bespoke anti-fraud solution for your weighbridge operation with this flexible application.



### SYSTEM COMPONENTS

**Weighbridge Entry and Exit Sensors** - There are two types of sensor that can be used on a weighbridge to verify the vehicle has fully entered or exited the weighbridge weight capture zone.

- Photo-Electric Cells: Positioned either side of the weighbridge at the entrance and exit and emit an infrared beam between them. If the beam is broken a vehicle is still passing through and onto / off the weighbridge.
- Pressure Sensors: Fixed to the weighbridge deck at the entrace and exit, the sensors are activated when a vehicle wheel rolls over them.

## SYSTEM FUNCTIONALITY & SETTINGS

**Modes of Operation** - There are two modes of operation that the system can be set to, one which alerts the operator, and one which does not.

- > **Passive Mode:** Registers the weighment as an incorrectly positioned vehicle without alerting the operator.
- Active Mode: alerts the operator to incorrectly positioned vehicles and only registers when the weighment can be completed.

**Logging Function** - Determines if the weighment data is logged to ftp or to USB.

**Buzzer** - When enabled will sound the internal buzzer to alert the operator of a triggered sensor.

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### INDICATOR FEATURES

- > 304 Brushed Stainless Steel housing
- > IP69k
- > Bright green graphical display
- > QWERTY keypad
- > 3 serial ports
- > 2 USB host ports
- > Ethernet communications
- > Tilt stand for desk or wall mounting



Indicator positioning prompt

#### WEIGHBRIDGE CONFIGURATION OPTIONS

#### **OPTION 1**

**OPTION 3** 

Uni-directional weighbridge with ZM150 indicator, barriers, remote display and fraud prevention sensors.



#### **OPTION 2**

Bi-directional weighbridge with ZM510 Indicator, traffic lights, remote display and fraud prevention sensors.



## **Avery Weigh-Tronix**

www.averyweigh-tronix.com

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